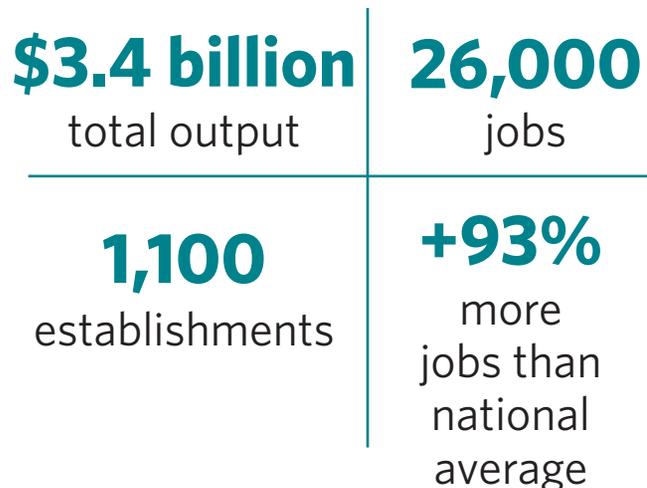


# Metalworking Technology

This cluster produces machine tools and process metal for use in metalworking, as well as downstream metal fasteners and hand tools. The technical report, *Metropolitan Chicago's traded industry clusters*, offers extensive data on the characteristics and performance of the Chicago region's core industrial assets since 2001, available for download at <https://cmap.is/Traded-Clusters>.

In the Chicago region in 2017, this cluster consisted of



Source: CMAP analysis of Economic Modeling Specialists International data (Emsi 2018.4).

Workers in this cluster tend to be **as** racially diverse than the regional labor force.

**41%** non-white

**19%** female

**41%** over age 50

**3%** commute by transit

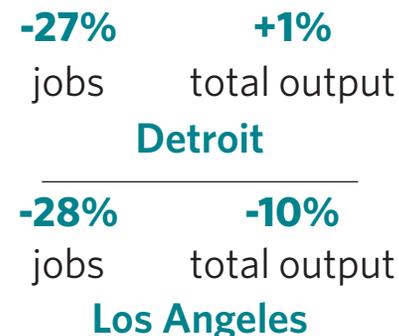


Source: CMAP analysis of Integrated Public Use Microdata Series, 2017 American Community Survey data.

## Largest occupations

- Machinists
- Machine Setters
- Tool and Die Makers
- First-Line Supervisors
- Inspectors and Testers

In recent years, the cluster's competitive position **weakened** as it became **less specialized** in the national context.



Source: CMAP analysis of Economic Modeling Specialists International data (Emsi 2018.4).  
Note: Job change is from 2001-17, and total output change is from 2007-17.

Middle-skill workers have **greater** opportunity than the regional average.



**27%**

of workers have an associate's degree or higher



**66%**

of jobs typically require at least 2 months of on-the-job training

Source: CMAP analysis of Integrated Public Use Microdata Series, 2017 American Community Survey and Economic Modeling Specialists International data (Emsi 2018.4).

In 2016, this cluster generated approximately

**\$22.7 billion**

in freight shipments that originate, terminate, or circulate regionally.

## Freight mode share, by value



## Freight trade geography, by value



**14%**

Chicago region



**29%**

Midwest



**32%**

Rest of U.S.



**25%**

Global

Source: CMAP analysis of Freight Analysis Framework data (FAF 4.4.1).  
Note: Data includes only the Illinois portion of the U.S. Census Bureau combined statistical area. Freight data is not provided for service clusters.